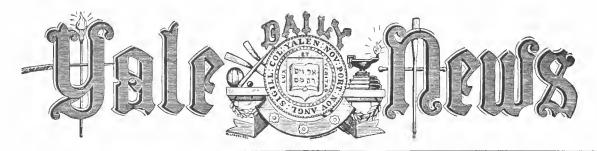
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Equipment on Floor 6M of the Sterling Memorial Library stands ready to receive the TV-via-laser transmission from Rumsey, who is five blocks away.

Electrical Eye Focuses Over Campus

By CHET COBB

Strange things are going on in the stacks of Sterling Memorial Library. On Floor 6M a wire runs along the rack of books and inside a locked cubicle. And from inside the cubicle

some sort of an electric eye overlooks the campus.

Has fortress Yale been infiltrated by the CIA? Is Big Brother watching over the campus? To the casual observer the answer might be "yes."

But David Rumsey, a research associate in the Art and Architecture Department, says "no." In fact, a group of Yale faculty members who call themselves "Pulsa" are conducting an experiment in laser beam transmission. The experiment, which began three weeks ago, is under the direction of Rumsey

Laser in A&A Building

The electrical apparatus in the stacks of the library is a laser beam receiver and represents only one part of the project.

The other, a laser, is 1200 feet away, on the fifth floor of the Art and Architecture Building. The receiver is specifically designed to pickup the laser's emission, a reddish laser

According to Rumsey, the project's goal is "to modulate a laser beam so it

can carry audio and video signals, like a wire of light. We are connecting functional audio and video equipment to the laser and to the receiver."

At this stage, the group is still the reception of the laser beam.

"When the system is operational, will drop wires to the floor at each end simultaneously," said Rumsey.

'Won't Burn Your Eveballs'

"helium-neon laser", "isn't the type which burns your eyeballs out.' The word "laser" stands for "light

having difficulty with distortions in amplification through stimulated emission of radiation.

"In this experiment the modulator which will hopefully be next week, we is almost as important as the laser,' said Rumsey. The modulator is a tube of the beam and people will be able to through which the laser beam passes. talk to and see each other It modulates the beam, making possible the transmission of audio and

Has fortress Yale been infiltrated by the CIA? Is Big Brother watching over the campus? To the casual observer the answer might be "ues."

Public Communication Channel Rumsey's immediate concern is tensity of the beam of light. technical, "to make the system objective of the group, said Rumsey, intense, and highly collimated. "is to provide a public, open channel type of communication.

library and the Art and Architecture available to us and were relatively hospitals in Cleveland. close together. The closeness makes the transmission that much easier. If perhaps next time we'll double it," said Rumsey.

the distance which can be traversed. doesn't contribute to the problem of available, harmless, low power, and each other. has an optimum range of four miles."

video signalls by changing the in-

The light output of any laser is operate effectively." The long-term extremely monochromatic, relatively

Although the project is still in the experimental stage at Yale, the same We chose these two points, the experiment has been done successfully at a few other universities. A Building, because they were easily link is now operable between two

Advantages Of Laser Broadcasting

According to Rumsey, "This type of we are successful at this distance, transmission has many advantages over ordinary broadcasting. By comparison, it's less expensive, not The power of the laser is the key to regulated by the government, and According to Rumsey, "this par- overcrowded air space." Laser beams ticular laser is commercially can intersect without interfering with

"The cost of a one-way link with a

laser is about \$2,000," said Rumsey, with the art school. For the past four Rumsey observed that this laser, a This figure excludes the cost of the years it has divided its time between audio and video equipment, "Pulsa" is receiving a grant from the Graham first researched in the field of light Foundation for the experiment.

The "Pulsa" group is associated field of communication.

the fine arts and research. The group and sound and is now moving into the



Pulsa director David Rumsey, stationed on the fifth floor of the Art and Architecture Building, takes careful alm before "shooting" a laser beam carrying an audio-visual transmission across campus.